

FEYDER, Valeriya Andreyevna; SHAFRANOVSKIY, K.I., red.; SIL'CHENKOVA,
V.V., red.

[Feodosii Nikolaevich Chernyshev; bibliographic index and
materials for his biography] Feodosii Nikolaevich Cherny-
shev; bibliograficheskii ukazatel' i materialy k biografii.
Sost. V.A.Feidr. Pod red. K.I.Shafranovskogo. Vstup. ocherk
D.V.Nalivkina. Leningrad, 1961. 347 p. (MIRA 15:3)

1. Akademiya nauk SSSR. Biblioteka.
(Chernyshev, Feodosii Nikolaevich, 1856-1914)
(Bibliography--Geology)

SHAFRANOVSKIY, K.I.

"Soviet zoologists." Reviewed by K.I. Shafranovskii. Zool. zhur.
40 no.12:1906-1907 D '61. (MIRA 15:3)
(Zoologists)

SHAFRANOVSKIY, K.I.

Work report of the Department of the History of Geographical Knowledge for 1961. Mat. Otd. ist. geog. znan. Geog. ob-va SSSR no.1: 77-87. '62. (MIRA 17:3)

1. Sekretar' otdeleniya istorii geograficheskikh znaniy Geograficheskogo obshchestva SSSR.

GRIGOR'YEV, Sergey Vladimirovich; SHAFRANOVSKIY, K.I., red.

[Inland waters of Karelia and their development; an annotated bibliography] Vnutrennie vody Karelii i ikh ispol'zovanie; bibliograficheskii annotirovannyi ukazatel'. Pod red. K. Shafranovskogo. Petrozavodsk, Karelskoe knizhnoe izd-vo, 1964. 617 p. (MIRA 19:1)

SHAFRANSKIY, L. L., Cand. Medic. Sci. (diss) "Clinical-X-ray
Study of Fractures and Fracture-dislocations in Elbow Joint,"
Leningrad, 1961, 18 pp. (Leningrad Sanit-Hygien. Med. Inst.)
400 copies (KL Supp 12-61, 290).

LITVINOV, V.F., assistant; SHAFRANSKIY, L.L.

Case of surgical treatment of aneurysm of the internal carotid
artery. Vest.khir. no.1:138-140 '62. (MIRA 15:1)

1. Iz gosspital'noy khirurgicheskoy kliniki (zav. - prof. M.V.
Danilenko) Vinnitskogo meditsinskogo instituta (dir. - dotsent
S.I. Korkhov).

(CAROTID ARTERY--SURGERY) (ANEURYSMS)

GARNISH, A.M.; SHAFRANSKIY, L.M.; DANILOVA, A.G.; KUZ'MINA, V.A.; Primali
uchastiye: ZVEZDINA, E.A.; ISHCHERIKOVA, G.A.

Obtaining acrolein from a propane-propylene fraction. Nefteser. i
neftekhim. no.10:26-28 '63. (MIRA 17:2)

1. Novokuybyshevskiy filial Nauchno-issledovatel'skogo instituta
sinteticheskikh spirtov.

SHAFRANSKIY, L.V. [Shafranaki, L.V.]

Cardiovascular changes in complex hypothermia in dogs in experiment.
Vestsi AN BSSR. Ser. biial. nav. no.3:83-87 '65. (MIRA 18:11)

KULAK, I.A.; SHAFRANSKIY, L.V. [Shafrenski, L.V.]

Dynamics of the temperature change in the skin during the formation of complex time relations in man. Vestsi AN BSSR Ser. biial.
nav. no.3:98-102 '64 (MIRA 18:1)

SHAFRANOVSKIY, N.I.

35934 formy prirodnogo rastvoreniya kvartsa. mineral. sbornik
(1'vov), No. 3, 1949, S. 53-61-bibliogr: 7 nazv.

SO: Letopis' Zhurnal'nykh Statey, No. 49, 1949

SHAFRANOVSKIY, Sergey Aleksandrovich, inzhener; PEREVERZEV, Nikolay
Zakharovich, inzhener; KOROLEV, Nikolay Ivanovich, inzhener;
VOLODIN, A.I., kandidat tekhnicheskikh nauk, redaktor; YEGU-
NOV, P.M., inzhener, redaktor; VERINA, G.P., tekhnicheskii
redaktor.

[Diesel locomotives; design, calculations and repairs] Teplo-
vozy; konstruktsiia, raschety i remont. Izd. 2-e, perer. Moskva.
Gos. transportnoe shel-dor. izd-vo, 1955. 555 p. (MLRA 8:8)
(Diesel locomotives)

SHAFRANOVSKIY, Sergey Aleksandrovich; PAVLENZEV, Nikolay Zakharovich;
; PODOLIN, Nikolay Ivanovich [deceased]; KUZ'MICH, Vadim
Pavlovich; KHIL'INA, N.P., kand. tekhn. nauk, cad.

[Diesel locomotives] Teplovozy. Izd.3., dop. i perer. [By]
S.A.Shafranovskii i dr. Moskva, Transport, 1964. 334 p.
(MIRA 18:2)

SHAFRANSKIY, S.M., kand.arkhitektury

Lowering the effect of the sun's rays in residential rooms in the
south. Trudy Khar.inzh.-stroi.inst. no.14:21-32 '60. (MIRA 15:7)
(Ukraine--Apartment houses) (Architecture--Details)

SHAFINBERG, V. M. "Fungal Diseases of Acorns and Oak Seedlings," Trudy Vsesoiuznogo Nauchno-Issledovatel'skogo Instituta Lesnogo Khozjaistva, no. 9, 1939, pp. 51-52. 99.9 L54

SO: SIRA SI-90-53, 15 Dec. 1953

1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 26

ANALYST, L. A. "Inheritance of Acorns and its Control," Bus i Stag,
vol. 3, no. 10, 1951, pp. 84-85. 19.8 L565

30: SIFA SI-90-53, 15 Dec. 1953

Country : USSR
 Category : Plant Diseases. Diseases of Forest Species.
 Abs. Jour.: Ref. Zhur.-Biologiya No. 11, 1958, No. 49227
 Author : Shafrenskaya, V.N.
 Institute : The All-Union Scientific Research Inst. of Forestry
 Title : The Susceptibility of Different Larch Species to Fungus Disease Caused by *Noria lariois* V.
 Orig. Pub.: Byul. nauchn.-tekhn. inform. Vses. n.-i. in-t lesovodstva i mekhaniz. lesn. kh-va, 1957, No. 4, 51-54
 Abstract : The author's investigations in 1954-1956 showed a universal occurrence of *M. lariois* in Moskovskaya and Kalininskaya Oblasts in the Belorussian SSR and Tatar ASSR. Differences in susceptibility to the disease in individual larch species was ascertained. Within the range of one and the same species, the geographic origin of the seeds can
 Card: 1/2

Country : USSR
 Category : Plant Diseases. Diseases of Forest Species.
 Abs Jour. : Ref. Zhur.-Biologiya No. 11, 1958, No. 49227
 Author :
 Institute :
 Title :
 Orig. Pub.:
 Abstract : can influence the disease's development. In all larch species infection of the assimilation apparatus retards growth and development in the plants.--G.A. D'yakova
 Card: 2/2

ABLOV, A.V.; SHAFRANSKIY, V.N.

Complex compounds of trivalent cobalt with dimethylglyoxime and
thiourethans. Zhur.neorg.khim. 6 no.8:1781-1785 Ag '61.
(MIRA 14:8)

1. Moldavskiy filial AN SSSR, Institut khimii.
(Cobalt compounds) (Glyoxime) (Urethans)

ABLOV, A.V.; SHAFRANSKIY, V.N.

Complex compounds of trivalent cobalt with dimethylglyoxime
and thioamides. Zhur. naorg. khim. 9 no.3:585-590 Mr '64.
(MIRA 17:3)

SHAFRANSKIY, L.L., ordinator

Gangrene of the lower extremities following measles. *Pediatrriia*
no.4:80-81 J1-Ag '54. (MLRA 7:10)

1. Iz khirurgicheskogo otdeleniya 2-y gorodskoy bol'nitsy g.
Vinnitsy (glavnyy vrach I.F.Iutskiy, nauchnyy rukovoditel' prof.
I.A.Shrayer)

(MEASLES, complications,
gangrene of leg)

(LEG, gangrene,
after measles)

(GANGRENE,
leg, after measles)

SHAFRANSKIY, L.L.

Fractures and dislocation in the elbow joint. Ortop., travm. protez.
19 no.1:67-68 Ja-F '58. (MIRA 11:4)

1. Iz khirurgicheskogo otdeleniya 2-y gorodskoy bol'nitsy g.Vinnitsy
i gospi'tal'noy khirurgicheskoy kliniki (zav. kafedroy - prof. I.A.
Shrayer) Vinnitskogo meditsinskogo instituta.
(ELBOW, fract.
fract. disloc., management (Rus))

SHAFRANSKIY, L.L., LEONARDOV, A.L.

"Injuries of the face and jaws and their treatment" by N.M. Mikhel'son,
Sov.med. 22 no.5:149-152 My '58 (MIRA 11:7)
(HEAD--WOUNDS AND INJURIES)
(MIKHEL'SON, N.M.)

SHAFRANSKIY, L. L. (Vinnitsa)

Perforated asymptomatic gastric ulcer caused by a cherry seed. Klin.
med. no.6:140-141 '61. (MIRA 14:12)

1. Iz khirurgicheskogo otdeleniya 2-y gorodskoy bol'nitsy Vinnitsy
i gosptal'noy khirurgicheskoy kliniki (zav. - doktor meditsinskikh
nauk M. V. Danilenko) Vinnitskogo meditsinskogo instituta.

(STOMACH--ULCERS)

SHAFRANSKIY, I. I.

Surgical treatment of fractures and fracture-dislocations of the
elbow. Ortop., travm. i protez. no.12:47 '61.

(MIRA 15:2)

(ELBOW--FRACTURE)

SHRAYER, I.A., prof.; SHAFRANSKIY, L.L. (Vinnitsa)

Case of reconstruction of the wrist during primary surgical
management. Kaz. med. zhur. no.1:73-74 Jan '62. (MIRA 15:3)
(WRIST--SURGERY)

GARNISH, A.M.; SHAFRANSKIY, L.M.; SKVORTSOV, N.P.; ZVEZDINA, E.A.;
STEPANOVSKAYA, V.

Catalytic oxidation of propylene to acrolein in the presence of
water vapors. Kin.i kat. 3 no.2:257-260 Mr-Ap '62.

(MIRA 15:11)

1. Novokuybyshevskiy filial Nauchno-issledovatel'skogo instituta
sinteticheskogo spirta.

(Propene) (Acrolein) (Water vapors)

Shahin, S. Y., I. F.

PRINTER 1 WORK INFORMATION NOV/93b

[illegible]

PREFACE: This book is intended for technical personnel.

[illegible]

Barthel, R.B., and V.B. Trueman. V.B. Trueman's Hydraulic Copying Slide
Table

CHAPTER II.

NUMERICAL PROGRAM CONTROL

Kueber, J. M. Use of Numerical Program Control for the Automation of Machine Tools in Small-Lot Production.

Yorger, A. A., O.J. Bohley, O.O. Kornenko, and N.L. Yermolov.
Specialized Computing Device for Controller Machine Tools Drive

Machining Int. Second-Order Control

OFFICIAL COPY

Wesley, M.G., Z.Z. B. Gerasimovich, and M.A. Tyshchenko, Drilling
Machine With Pressure Control

East, A.A. The Use of Piezoelectric Functional Transducers as Betting

Devices in Program Control Systems

ICP Settling the Magnitude of Tool Displacements

Fuller, P.A. Intermediate Single-Coordinate Program Control Systems
for Lathes

Baruch, A.P. Experience Gained in the Use of the Stryu Program

SECTION III.

AUTOMATION IS LOT PRODUCTION BASED ON THE COSTS INCURRED PER UNIT

WITNESSING A.P. Group Method as the Basis of Automation in the Production

Easy, The New Model 1140 Single-Spindle Automatic
Turn Lathe

Vladimirov, I. M., and O. V. Borodavchenko. Mechanization of Assembly and Dissection of Machinery at the Zarechenskoye Paper Mill (Plant level paper)

919114.420000

AVAILABLE! Library of Congress

Card 3/5

VK/pa/ma
10-25-60

S/118/61/000/008/001/005
D267/D304

AUTHOR: Shafranskiy, P.F., Engineer

TITLE: Metal-working lathes with program control

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva,
no. 8, 1961, 13 - 17

TEXT: The article discusses some machine tools fitted with various types of program control. The 1П318 (1P318) and 1П326 (1P326) turret lathes are fitted with program-track control and are intended for the automatic machining of parts from bar. The system involves controllable executive mechanisms and checking elements for automating idle and operative travel of the supports and for checking the extent of such travel. The kinematic system of the modernized lathes is illustrated and described, and an account is given of the machining process, the method of setting up the lathes and the economic efficacy of the programming device. The "Gerbert 2S" ✓

Card 1/2

Metal-working lathes...

S/118/61/000/008/001/005
D267/D304

turret lathe is fitted with a program-track control and is intended for machining parts from bar or from individual blanks. The system involves the use of pneumatic and hydraulic executive mechanisms for traverse and travel. The $\Pi-1$ (TP - 1), $\Pi-1M$ (TP-1M), 1616 and 1A62M(1D62M) screw-cutting lathes are fitted with a digital system of program control using binary calculation and punched cards. Details of the control system are given together with data on the efficiency and productivity of the automated lathes. Research is in progress for the introduction of milling machines fitted with the 6H 13 $\Pi p-3$ (6N13Pr-3) program control. Here the machining program is recorded on tape and the lathes' operating mechanisms are driven by stepping motors and hydraulic amplifiers. There are 4 figures.

Card 2/2

SHAFRANSKIY, T.P., inzhener.

Park of the Moscow river embarkation station in Khimki. Gor.khoz.Mosk. 21 no.
5:14-20 My '47. (MLRA 6:11)

(Moscow--Parks) (Parks--Moscow)

SHAFRANSKIY, T.P., inzhener.

Transplanting trees and bushes in the summer. Gor.khoz.Mosk. 25 no.5:22-25
My'51. (MLRA 6:11)

(Tree planting) (Shrubs)

SHAFRANSKIY, T.

Volga-Don Canal

Tree planting in the construction of the Volga-Don navigation canal. Zhil.
-kom. khoz. 2 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952, Uncl.

1. SHAFRANSKIY, T.c., ENG.
2. USSR (600)
4. Volga-Don Canal Region - Landscape Gardening
7. Planting along the Lenin Volga-Don Canal. Les. i step' 4 no.10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SHAFRANSKIY, T. I.

Landscape Architecture

"Landscape architecture." L. B. Lunts. Reviewed by T. P. Shafranskiy. Gor.khoz. Mosk. 26 No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

SHAFRANSKIY, T.P.

Mechanization in city landscaping work. Gor.khoz.Mosk. 27 no. 4:25-27 Ap
'53. (MLRA 6:5)

(Landscape gardening)

SHAFRANSKIY, T.P., starshiy nauchnyy sotrudnik.

Transplanting trees and bushes in winter. Gor.khoz.Mosk. 30 no.11:28-31 N '56. (MIRA 10:3)

1. Akademiya kommunal'nogo khozyaystva imeni K.S.Pamfilova.
(Moscow--Tree planting)

SHAFRANSKIY, T. P. Cand Agr Sci -- (diss) "Study of the
Problems of ^{the} Transplanting ^{of} ~~the~~ Decorative and ~~FRUIT-BEARING~~ Fruit-Bearing
Trees ^{and Shrubs} in ^{the} ~~FRUIT-BEARING~~ Foliated State." Mos, 1957. 18 pp 20 cm.
(Mos Order of Lenin Agricultural Academy im K. A. Timiryazew),
110 copies, (KL, 17-57, 98)

SHAFRANSKIY, T

USSR/Cultivated Plants - Decorative.

M-8

Abs Jour : Ref Zhur - Biol., No 3, 1958, 11122

Author : Shafranskiy, T.

Inst :

Title : Crown Formation of Trees and Shrubs in Decorative Gardening.

Orig Pub : Zhil.-kommun, kh-vo, 1957, No 4, 7-11.

Abstract : The tree varieties are indicated which can undergo rejuvenation: easily, with difficulty, and which cannot take rejuvenation. An enumeration is given of the five most suitable tree varieties and eight most suitable varieties of bushes for decorative pruning. A scheme is set out of the different ways to prune a live hedge.

Card 1/1

SHAFRANSKIY, T
APPROVED FOR RELEASE: 07/20/2001

CIA-RDP86-00513R001548520010-5"

The summer transplanting of trees and shrubs. Zhi.-kom. khoz.

7 no.6:21-23 '57.

(MIRA 10:10)

(Trees) (Shrubs)

COUNTRY : USSR
CATEGORY : Cultivated Plants. Ornamental. M
ABS. JOUR. : RZhSic1., No. 23, 1958, No.104907
AUTHOR : Shafrenskiy, T. P.
INST. : Ministry of Municipal Economy, Moscow
TITLE : Transplanting Trees and Shrubs in Summer in Cities,
2nd Edition, Corrected and Supplemented.
ORIG. PUB. : M., Movo kommun. kh-va Moskva, 1958, 122 str., ill.
ABSTRACT : No abstract.

CARD: 1/1

166

Greenery in Vologda. Zhil.-kom. khor. 8 no.2:21-22 '58.

(MIRA 11:2)

(Vologda--Landscape gardening)

SHAPFRANSKIY, T.

Using forest tree species in city landscaping. Zhil.-kom. khoz. 8
no. 7:17-18 '58. (MIRA 11:8)

(Tree planting)
(Landscape gardening)

SHAFRANSKIY, T.P., starshiy nauchnyy sotrudnik

Frost resistance of tree roots. Gor.khoz.Mosk. 33 no.1:38-39 Ja '59.
(MIRA 12:3)

1. Akademiya kommunal'nogo khozyaystva imeni Pamfilova.
(Moscow--Tree planting) (Plants--Frost resistance)

SHAFRANSKIY, T.P., kand.sel'skokhozyaystvennykh nauk

Viability and life-expectancy of trees and shrubs under the
climatic conditions of Moscow. Gor.khoz.Mosk. 33 no.10:
18-20 0 '59. (MIRA 13:2)
(Moscow--Trees) (Moscow--Shrubs)

SHAFRANSKIY, T.P., kandidat sel'skokhozyaystvennykh nauk

Accelerated growth of linden seedlings in the nursery. Gor.khoz.Mosk.
35 no.4:26-28 Ap '61. (MIRA 14:5)
(Linden)

SHAFRANSKIY, Timofey Potapovich; SAKHAROV, I.M., red.; NERONOVA, M.D.,
red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Transplanting trees in winter] Peresadka derev'ev zimoi. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1961. 79 p.

(MIRA 14:7)

(Tree planting)

PISARIK, L.S., kand. tekhn. nauk; SHAFRANSKIY, V.I.; ZOTOV, A.V.

Calculating periodic-action a.c. drive operating jointly
with the hydromechanical transmission. Avt. prom. 30
no.9:24-27 S '64. (MIRA 17:10)

1. Belcrusskiy politekhnicheskii institut i Belorusskiy
avtomobil'nyy zavod.

SHAPRALOV, V.I., inst.: 11 AMIL, I.S., kand. tekhn. nauk

Network for exciting a synchronous generator of a traction system.
Izv. vys. ucheb. zav.; energ. 8 no.10:43-49 O '65.

(MIRA 18.10)

I. Belorusskiy politekhnicheskii institut. Predstavlena kafedroy
elektromashin i elektroprivoda.

SHAFRANSKII, V.

Ryzhkov, I. and Shafranskii, V. Certain problems accounting for the mechanization of heavy labor. p. 20.

SO: Herald of Statistics (Vestnik), No. 2, 1951

SHAFRANSKIY, V

Planirovaniye Mekhanizatsii Trudoyemkikh i Tyazhelykh Rabot v Promshlennosti SSSR (Planning the Mechanization of Labor Consuming, and Heavy Labor Industry of the USSR by) V. Shafranskiy (and) M. Sirotin. Moskva, Gospolitizdat, 1953.
191 p. Tables.

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740.02
.86

CHERESHNEV, V.A., inzhener; SHAFRANSKIY, V.N., inzhener.

Organization of large mechanized pits is the source of reducing construction costs. Mekh.stroi. 10 no.7:15-20 J1 '53. (MLBA 6:7)

(Sand) (Gravel)

SHAFRANSKIY, V.N., inzhener.

Work of the sections on organization and mechanization of construction work and on the manufacture of building and road construction machinery. Mekh.stroi. 12 no.1:10-14 J '55. (MIRA 8:3)
(Construction industry--Congresses) (Building machinery)
(Road machinery)

SHAFRANSKIY, V.N., inzhener

Problems of mechanization at the All-Union Conference on Reinforced
Concrete and Concrete. Mekh. stroi. 12 no.7:10-13 Jl '55. (MLR 8:9)
(Moscow--Concrete--Congresses)

CHERNOSHEV, V.A., inzhener, redaktor; SHAFRANSKIY, V.M., inzhener redaktor;
BEOAK, B.A., redaktor; BARANOV, M.V., tekhnicheskii redaktor.

[Over-all mechanization of building work; principal aspects] Kompleksnaia mekhanizatsiia stroitel'nykh rabot; osnovnye polezheniia. Moskva, Gos.izd-vo lit-ry po stroit. i arkhitekture. 1956. 102 p. (MLRA 9:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii stroitel'stva.
(Building)

SEMKOVSKIY, V.V.; SHAFRANSKIY, V.N.; KANTORER, S.Ye., kandidat tekhnicheskikh nauk, redaktor; DAKHOV, V.S., tekhnicheskii redaktor.

[Complex mechanization of construction work and problems] Kompleksnaya mekhanizatsiya stroitel'nykh rabot i voprosy ee effektivnosti. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1956.174 p.
(Construction industry) (MIRA 9:4)

SHAFRANSKIY, V.

Conference on the amortization rate to be used in making deductions
for construction machinery and equipment. Vop.ekon.no.8:156-158 Ag
'56. (Construction industry--Accounting) (MLRA 9:9)

SHAFRANSKIY, V. N.

YEPIFANOV, S.P., kandidat tekhnicheskikh nauk; ~~SHAFRANSKIY, V. N.~~ inzhener, redaktor; TARAYEVA, Ye.K. redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiiy redaktor.

[Methods of selecting the most effective systems for over-all mechanization of construction work] Metodika vybora naibolee effektivnykh sposobov kompleksnoi mekhanizatsii stroitel'nykh rabot. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957. (MLRA 10:6)
175 p.

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii stroitel'stva.
(Construction industry)

SHAFRANSKIY, V.N., inzh.

Expansion of the mechanization of construction in the U.S.S.R.
Bul. stroi. tekhn. 14 no.11:1-5 N '57. (MIRA 11:1)

1. Gosstroy SSSR.
(Building machinery)

SOKOLOV, K.M.; YEVSTAFYEV, S.V.; ROSTOTSKIY, V.K.; GRECHIN, N.K.; STANKOVSKIY, A.P.; BAUMAN, V.A.; BERKMAN, I.L.; BORODACHEV, I.P.; BOYKO, A.G.; VALUTSKIY, I.I.; VATSSLAVSKAYA, L.Ya.; VOL'FSON, A.V.; DOMBROVSKIY, N.G.; YEGNUS, M.Ya.; YEFREMEENKO, V.P.; ZIMIN, P.A.; IVANOV, V.A.; KOZLOVSKIY, A.A.; KOSTIN, M.I.; KRIMERMAN, M.N.; LINEVA, M.S.; MERENKOV, A.S.; MIROPOL'SKAYA, N.K.; PETROV, G.D.; REBROV, A.S.; ROGOVSKIY, L.V.; SMIRNOV, G.Ya.; SHAFRANSKIY, V.N.; SHIMANOVICH, S.V.; SHNEYDER, V.A.

Evgenii Richardovich Peters; obituary; Mekh. stroi. 15 no.1:3 of cover
Ja '58. (MIRA 11:1)

(Peters, Evgenii Richardovich, 1892-1957)

SHAFRANSKIY, V.N., inzh.

The over-all mechanization of heavy work in construction. Mekh. stroi.
15 no.4:2-5 Ap '58. (MIRA 11:5)

(Building machinery)

SHAFRANSKIY, V.N., inzh.

Methods for determining standards of mechanization in construction.
Mekh.stroi. 17 no.2:11-14 F '60. (MIRA 13:8)
(Building machinery) (Earthwork)

SEM KOVSKIY, V.V.; SHAFRANSKIY, V.N.; KAZARINOV, V.M., inzh., red.;
MORSKOY, K.L., red. izd-va; BOROVIKOV, M.K., tekhn. red.

[Over-all mechanization in construction and its efficiency]
Kompleksnaya mekhanizatsiya v stroitel'stve i ee effektivnost'.
Izd. 2., dop. Moskva, Gos. izd-vo lit-ry po stroit., arkh. i
stroit. materialam, 1960. 215 p.

(MIRA 14:3)

(Building machinery)

KANTORER, Solomon Yevseyevich; SHAFRANSKIY, V.N., red.; MORSKOY, K.L.,
red. izd-va; GOL'BERG, T.M., tekhn. red.

[Methods of proving the efficiency of using machinery in construction] Metody obosnovaniia effektivnosti primeneniia mashin v stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 341 p.

(MIRA 14:12)

(Building machinery)

KANTORER, S.Ye., kand.tekhn.nauk; SHAFRANSKIY, V.N., inzh., red.;
RUDAKOVA, N.I., tekhn.red.

[Amortization and the depreciation of machinery in the
construction industry] Amortizatsiya i moral'nyi iznos
mashin v stroitel'stve. Moskva, Gos.izd-vo lit-ry po stroit.,
arkhit. i stroit.materialam, 1959. 90 p. (MIRA 15:2)
(Construction industry--Finance)

KANTORER, S.Ye., kand. tekhn. nauk; SHAFRANSKIY, V.N., inzh., otv. red.;
GERASIMOVA, G.S., red. izd-va; NAUMOVA, G.D., tekhn. red.

[Instructions for analyzing the economic effectiveness of introducing mechanization and automation in construction] Ukazaniia po raschetam ekonomicheskoi effektivnosti vnedreniia mekhanizatsii i avtomatizatsii v stroitel'stve. Moskva, Gosstroizdat, 1962. 133 p.
(MIRA 16:1)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut ekonomiki stroitel'stva.

(Automation) (Construction industry)

ABLOV, A.V.; SHAFRANSKIY, V.N.

Complex compounds of trivalent cobalt with dimethylglyoxime and
sulfanilamides. Zhur.neorg.khim. 7 no.7:1521-1524 JI '62.

(MIRA 16:3)

(Cobalt compounds)

(Glyoxime)

(Sulfanilamide)

SHAFRANSKIY, V.N.; CHERESHNEV, V.A., nauchn. red.; SHITOVA, L.N.,
red.; SHEVCHENKO, T.N., tekhn. red.

[Determining the need for construction equipment] Oprede-
lenie potrebnosti v stroitel'nykh mashinakh. Moskva, Gos-
stroizdat, 1963. 92 p. (MIRA 17:2)

ABLOV, A.V.; FROSKINA, N.N.; SHAFRANSKIY, V.H.

Infrared absorption spectra of trans-dihydroxyimines of
trivalent cobalt with sulfanilamides. Zhur. neorg. khim.
10 no.6:1355-1359 Je '65. (MIRA 18:6)

1. Institut khimii AN Moldavskoy SSR.

SHAFRANSKIY, V.N.; ABLOV, A.V.

Dioximines of trivalent cobalt containing thiourea and aromatic amines. Zhur.neorg.khim. 11 no.1:67-71 Ja '66. (MIRA 19:1)

1. Institut khimii AN Moldavskoy SSR. Submitted June 8, 1964.

SHAFRANSKIY, V. P.

Shafranskiy, V. P.

"An evaluation of types of lupine for green fodder and seed and the outlook for cultivating lupine in Leningrad Oblast." All-Union Academy of Agricultural Sciences imeni V. I. Lenin. All-Union Sci Res Inst of Plant Growing. Leningrad, 1956 (Dissertation for the degree of Candidate in Agricultural Sciences)

Knizhnaya letopis
No. 15, 1956. Moscow

BELIAKOV-BODIN, V.I.; KOLESNIKOV, M.A.; TORGOV, Yu.I.; SHAFRANSKIY,
V.V.; SMIRYAGIN, V.P., otv. red.; ORLOVA, I.A., red.

[Supervision of the operation of electronic computers] Kontrol'
raboty elektronnykh vychislitel'nykh mashin. Moskva, 1965. 48 p.
(MIRA 18:8)

1. Akademiya nauk SSSR. Vychislitel'nyy tsentr.

Subject: Investigation of the simultaneous action of light and electrons on
semiconductors. Author: V. M. Solov'ev, Associate Professor of Radio Engineering Institute
Leningrad V. M. Solov'ev, Leningrad. (Vestnik Akad. Nauk SSSR, Moscow, 1954, No. 11).

Ref: 1954, 43, 1954.

FD-3173

USSR/Physics - Conductivity

Card 1/1 Pub. 153-3/21

Author : Shafratova-Ekertova, L. I.

Title : The question of the conductivity of an antimony-cesium layer

Periodical: Zhur. tekhn. fiz., 25, No 8 (August), 1955, 1357-1363

Abstract : The author's purpose is to throw some light on the physical nature of the phenomenon resulting from the application of a voltage to an antimony-cesium layer. A great increase in current in the layer is noted, more than can be explained by heating. A number of measurements give dependences of current upon time, potential, current across the layer and degree of polarization. These are expressed graphically, and the author uses the graphs to present her interpretation of the phenomenon. She states that the increase in current is based upon an unusual type of polarization of the layer. A film is formed around the layer which permits current to flow out but not in.

Submitted : September 4, 1954

SHAFRATOVA-YEKERTOVA, L.I.

21
The additivity of photoemission and secondary electron emission of metals. L. I. Shafratova-Yekertova. *Zhur. Tekh. Fiz.* 26, 1665-8 (1958).—The problem of additivity of photoemission and secondary electron emission of metals was studied, and the work of H. Demmer, the effect of non-additivity of action of light and electrons on metals (*C.A.* 19, 3063), was critically reviewed. Demmer's results were considered incomplete. Schematic diagrams of the app. and a detailed description of the exptl. procedure were given in this study. It was shown, both theoretically and experimentally, that additivity of photocurrent and the secondary current of metals occurred. The photocurrent in Mg was found to be 1×10^{-7} amp. and in Al it amounted to 2×10^{-7} amp. For slightly surface-oxidized metals, the additivity of both currents was retained. P. P.

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SECRET, A. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
<u>Shafrin, A. I.</u>	"Cotton Growing" Textbook	Ministry of Agriculture Uzbek SSR

SO: W-30604, 7 July 1954

USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29888

Author : Molchanov, D.M., Lysenko, F.F., Rodimtsev, I.A., Rzhnevskiy,
G.K., Shafrin, A.N.

Inst : -

Title : Cotton Sowing Times in Uzbekistan.

Orig Pub : Sots. s. kh. Uzbekistana, 1957, No 3, 7-10

Abstract : No abstract.

Card 1/1

- 13 -

SHAFRIN, A.N., Cand Tech Sci -- (diss) "Study of the
kinematics and dynamics of ^{static} booster accelerators for
tractor magnetos." ~~Tsk~~ Tashkent, 1958, 23 pp. with
sketches (Min of Agr USSR. Tashkent Inst of Engineers
of Irrigation and Mechanization of Agr) 150 copies
(KL, 39-58, 110)

- 48 -

DADABAYEV, A.D., akademik, glavnyy red.; KANASH, S.S., akademik, zamestitel' glavnogo red.; UCHEVATKIN, F.I., otv.red.; AVTONOMOV, A.I., red.; ALEKSANDROV, A.S., kand.sel'skokhoz.nauk, red.; ARUTYUNOVA, L.G., kand.biol.nauk, red.; VELIYEV, I.M., kand.sel'skokhoz.nauk, red.; KASSIRSKIY, A.A., red.; KRASICHKOV, I.P., akademik, red.; MAKSIMENKO, I.K., akademik, red.; MAL'TSEV, A.M., red.; MANNANOV, N.M., akademik, red.; MUKHAMEDZHANOV, M.V., akademik, red.; SADYKOV, S.S., red.; STRAUMAL, B.P., kand.sel'skokhoz.nauk, red.; SHAFRIN, A.N., zasluzhennyy agronom Uzbekskoy SSR, red.; KURANOVA, L.I., red.; MEDOVAR, TS.I., red.; SOROKINA, Z.I., tekhn.red.

[Materials of the All-Union Conference on Cotton Breeding and the Production of Cottonseed] Materialy Vsesoyuznogo soveshchaniya po selektsii i semenovodstvu khlopchatnika. Tashkent, Uzbekskaya Akad.sel'khoz.nauk, 1960. 383 p. (MIRA 13:11)

1. Vsesoyuznoye soveshchaniye po selektsii i semenovodstvu khlopchatnika. 2. Uzbekskaya Akademiya sel'skokhozyaystvennykh nauk (for Dadabayev, Mannanov, Mukhamedzhanov). 3. Vsesoyuznaya akademiya sel'skokhoz.nauk im. V.I.Lenina (for Kanash). 4. AN UzSSR (for Kanash, Mukhamedzhanov). 5. Chlen-korrespondent Uzbekskoy Akademii sel'skokhoz.nauk (for Uchevatkin). 6. Chleny-korrespondenty AN UzSSR (for Avtonomov, Mal'tsev, Sadykov). 7. AN Tadzh.SSR (for Krasichkov, Maksimenko).

(Cotton breeding--Congresses)

(Cottonseed)

SOKOLOV, F.A., kand. sel'khoz. nauk; KOKUYEV, V.I., kand. sel'-
khoz. nauk; SHAFRIN, A.N., zasl. agr. Uzb. SSR; KONDRATYUK, V.P.,
kand. sel'khoz. nauk; MALINKIN, N.P., doktor sel'khoz.
nauk; YEREMENKO, V.Ye., doktor sel'khoz. nauk [deceased];
MEDNIS, M.P., kand. biol. nauk; FILIPPENKO, G.I., kand.
sel'khoz. nauk; USPENSKIY, F.M., kand. biol. nauk;
SOLOV'YEVA, A.I., kand. sel'khoz. nauk; PRUGALOV, A.N.,
kand. sel'khoz. nauk [deceased]; ZAKIROV, T.S., kand.
sel'khoz. nauk; FRET'KIN, V.M., zasl. mekhanizator UzSSR;
GORELIK, I.M., red.; ABBASOV, T., tekhn. red.

[Cultivation practices in cotton growing] Agrotekhnika
khlopchatnika. Tashkent, Gos. izd-vo UzSSR, 1963. 326 p.
(MIRA 17:1)

(Uzbekistan--Cotton growing)

L 52762-65 EWG(j)/EWT(1)/EWT(m)/EPF(c)/FCG/EPR/EWP(t)/EWP(b)/EWA(h)
Po-4/Pt-4/Pr-4/PS-4/Pac-2/Pt-7/Peb/Pi-4 IJP(c) JD/GS/GW

ACCESSION NR: AT5011179

UR/0000/64/000/000/0245/0250

AUTHOR: Berezin, V. M.; Shafrin, Yu. A.

TITLE: Vertical distribution of ozone during ascending and descending currents in the atmosphere

SOURCE: Mezhvedomstvennoye soveshchaniye po aktinometrii i optike atmosfery.
5th, Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 245-250

TOPIC TAGS: ozone concentration, troposphere, stratosphere, ascending current,
descending current, ozone diffusion, photochemical equilibrium

ABSTRACT: The authors have investigated the vertical distribution of ozone using a continuity equation expressing the law of conservation of mass, which makes it possible to take into account any number of ozone-forming and ozone-destroying factors. The full equation is presented and then simplified for the case when latitudinal and meridional exchange are not taken into account. Emphasis is on the study of the vertical distribution of ozone during ascending and descending currents in the atmosphere, taking into account turbulent diffusion and the coefficient λ (λ is a coefficient equal to the inverse value of the time of half-

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L 52763-65

ACCESSION NR: AT5011179

restoration of photochemical equilibrium). The data used were observations of the vertical distribution of ozone over Arosa, Switzerland, in August 1958. The 6-50 km atmospheric layer was divided into 22 2-km layers. Formulas are presented which satisfactorily describe possible changes in the vertical distribution of ozone. It was found that turbulent diffusion in combination with vertical velocity exerts an appreciable influence on the decrease in total ozone content in the case of ascending currents and the increase in the case of descending currents. In the absence of vertical velocity, the diffusion coefficient exerts no appreciable influence on ozone distribution. The effect of turbulent diffusion nowhere exceeds the effect of vertical velocity, but is a very appreciable supplement to it. The presence of ascending and descending currents in anticyclones leads to an ozone accumulation aloft and a decrease in its concentration below; in cyclones, the effect is opposite. This can cause the development of a horizontal gradient of the total ozone content over large areas and also a horizontal gradient of its individual layers. Orig. art. has: 7 formulas, 1 figure and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: 25Nov64

ENCL: 00

SUB CODE: ES

NO REF SOV: 005

OTHER: 003

Card

2/2

ACCESSION NR: AP4013147

S/0203/64/004/001/0131/0136

AUTHORS: Berezin, V. M.; Shafrin, Yu. A.

TITLE: Computing the vertical distribution of atmospheric ozone

SOURCE: Geomagnetizm i aeronomiya, v. 4, no. 1, 1964, 131-136

TOPIC TAGS: ozone, atmospheric ozone, vertical distribution, troposphere, stratosphere, turbulence coefficient, anticyclone, cyclone, horizontal ozone gradient

ABSTRACT: The authors have based their work on average vertical ozone distribution above Arosa. The difference scheme

$$\frac{p_{i,j+1} - p_{i,j}}{h} - \frac{D_i(p_{i+1,j} - 2p_{i,j} + p_{i-1,j})}{h^2} - (D_i - w) \frac{p_{i+1,j} - p_{i-1,j}}{2h} +$$

$$+ (\alpha + c) p_{i,j} = \alpha p_{\alpha},$$

(where i and h represent steps of time and the coordinate, i and j the coordinate and time number of the step, p the ozone density, D the coefficient of turbulent diffusion, w the vertical velocity of the air, and $\alpha = 1/\tau$ is a coefficient equal

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ACCESSION NR: AP4013147

to the reciprocal value of time for half restoration of photochemical equilibrium) satisfactorily describes possible changes in vertical ozone distribution. This is confirmed particularly by sample computation of ozone distribution with zero initial distribution. The coefficient of turbulent diffusion in combination with vertical velocity has a fundamental effect on diminution of total ozone content during ascending currents and on increase during descending currents. Computations have shown that, when there is no vertical velocity, diffusion has no noticeable effect on the distribution of ozone. When turbulence is insignificant in the troposphere and lower stratosphere during ascending movements, two secondary maximums of concentration appear at low altitudes. These maximums fuse into one, weakly defined, when turbulence increases. Descending movements, especially during increased turbulence, do not favor development of secondary maximums. The presence of ascending and descending currents in cyclones and anticyclones leads to accumulation of ozone upward and decrease in ozone downward in the cyclone. The reverse is true in the anticyclone. This may give rise to a horizontal ozone gradient over extensive regions and also to a horizontal gradient within individual layers. Orig. art. has: 2 figures, 2 tables, and 7 formulas.

Card 2/3

ACCESSION NR: AP4013147

ASSOCIATION: Moskovskiy gosudarstvennyy universitet, Fizicheskiy fakul'tet
(Moscow State University, Physics Department)

SUBMITTED: 04Jul63

DATE ACQ: 02Mar64

ENCL: 00

SUB CODE: AS-PH

NO REF SOV: 006

OTHER: 003

Card

3/3

BEREZIN, V.M., kand. fiz.-matem. nauk; SHAFRIN, Yu.A.

Some results of numerical analysis of the vertical distribution of
ozone. Meteor. i gidrol. no.6:23-29 Je '65. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet.

L 61422-65 EWG(j)/EWT(1)/EWT(m)/EPF(c)/FGG/EWP(t)/EWP(b)/EWA(h) Pd-h/Pq-h/
Pr-h/Ps-h/Pae-2/Pt-7/Peb/Pi-h LJP(c) JD/GW

ACCESSION NR: AP5019156

UR/0362/65/001/007/0742/0749
551.510.534

AUTHOR: Shafrin, Yu. A.

TITLE: Large-scale turbulent transport and meridional circulation of ozone

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 7, 1965, 742-749

TOPIC TAGS: atmospheric ozone, ozone circulation, planetary ozone forecasting, turbulence theory

ABSTRACT: Contemporary ozonospheric physics attempts, on the one hand, to couple the forecast of the planetary ozone changes with nonadiabatic approaches to long-range weather forecasting and, on the other, to analyze the dynamic atmospheric processes taking into account the thermodynamic characteristics of the ozone layer. Ozone forecasting must rest on the semiempirical turbulence theory and, consequently, the author solves, numerically in polar coordinates, the steady-state equation of turbulent diffusion in an incompressible medium. The solution for the nonconservative component is used for a comparison of the large-scale turbulent intralatitude exchange with the ordered meridional circulation during the winter transfer of ozone towards the north. Results show that in the spring, in the presence of large horizontal ozone density gradients, the

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ACCESSION NR: AP5019156

role of advection becomes more important than in the summer and winter when the already dominant role of vertical motions is even further enhanced. However, the author emphasizes that future successful ozone forecasting requires extensive preliminary research in the field of 1) ozone decomposing factors in the moderate and equatorial regions; 2) nonsteady-state application of the semiempirical turbulence theory; 3) wider uses of the existing conservative-component vertical flow and propagation investigation methods; 4) development of methods for the functional approximation of turbulence and other coefficients; and 5) incorporation of ozonal currents and longitudinal ozone distributions. "The author thanks A. Kh. Khrgian for valuable consultations and R. A. Timasheva for help during the calculations." Orig. art. has: 11 formulas and 3 figures.

ASSOCIATION: Tsentral'naya aerologicheskaya observatoriya (Central Aerological Observatory)

SUBMITTED: 28Nov64

ENCL: 00

SUB CODE: ES

NO REF SOV: 011

OTHER: 007

Card

2/2

L 34831-60 FWT(1)/EWT(m)/FCC/ENP(t)/ETI IJP(c) JD/GW

ACC NR: AP6022223

SOURCE CODE: UR/0362/66/002/006/0647/0655

AUTHOR: Shafrin, Yu. A.

ORG: Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya)

TITLE: Statistical characteristics of the ozonosphere

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 6, 1966, 647-655

TOPIC TAGS: ozone, troposphere, stratosphere, ozone dispersion, structural function, correlation function

ABSTRACT: The circulation of ozone in the middle and lower stratosphere can be determined from ozone measurements made by instruments mounted on artificial satellites. Investigations of the formation and decomposition of ozone can be made with temporary spectra for total ozone content and for its vertical distribution. The homogeneity and isotropy of the total ozone were determined from the mean yearly dispersion of ozone in the latitude belt from 30°—60°, where the dispersion is approximately constant. The dispersion diminishes rapidly to the south and increases to the north of the belt. Data from an ozonometric station network processed with similar methods were used for computation of the structural function of ozone distribution. The network stations cover the European Continent. The structural function is computed for two seasons: winter and spring with maximum variations, and autumn with minimum variations. Computed values of the structural function for

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UDC: 551.510.534

L 34831-66

ACC NR: AP6022223

winter and spring show great dispersion which contradicts the hypothesis of the homogeneous distribution of ozone. The vertical distribution of ozone was assumed to be homogeneous, and the correlation function and the potential temperature in the troposphere and stratosphere were computed. The variability of ozone density in the troposphere is great compared with the stratosphere. Temporary variations in ozone density can be determined from spectral analysis of the total quantity of ozone. Temporary autocorrelational functions were computed for six stations in the Northern Hemisphere and represented graphically. Five curves are analogous, and only the curve of the tropical station differs. The author expresses thanks to G. P. Satarova for help. Orig. art. has: 5 figures and 4 formulas. [EG]

SUB CODE: 04/ SUBM DATE: 03Feb66/ ORIG REF: 014/ OTH REF: 006/ ATD PRESS: 5032

Card

212 FV

L 23130-66 EWA(h)/EWT(1)/FCC GW
ACC NR: AP600666h

SOURCE CODE: UR/0203/66/006/001/0105/0112

AUTHOR: Shafrin, Yu. A.

ORG: Central Aerological Observatory (Tsentral'naya aerologicheskaya
observatoriya)

TITLE: Local peculiarities in the vertical distribution of ozone

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 1, 1966, 105-112

TOPIC TAGS: ozone, atmosphere, dynamic system, turbulent flow, photochemistry

ABSTRACT: This paper completes the work of V. M. Berezin and Yu. A. Shafrin
(Geomagn. i aeronomiya, 1964, 4, No. 1, 131; Meteorol. i gidrol., 1965, No. 6, 23)
and seeks to define the peculiarities in vertical distribution of ozone in
equatorial and polar zones as these depend on dynamic and photochemical character-
istics of these latitudes. The author takes as a basis for computation the equa-
tion of continuity for a nonconservative light ingredient:

Card 1/3

UDC: 550.388

L 23130-66

ACC NR: AP6006664

$$\frac{\partial \rho}{\partial t} + \frac{\partial(\rho u)}{\partial x} + \frac{\partial(\rho v)}{\partial y} + \frac{\partial(\rho w)}{\partial z} =$$

$$= \alpha(\rho_0 - \rho) + \frac{\partial}{\partial z} \left(D^z \frac{\partial \rho}{\partial z} \right) + \frac{\partial}{\partial y} \left(D^y \frac{\partial \rho}{\partial y} \right) + \frac{\partial}{\partial x} \left(D^x \frac{\partial \rho}{\partial x} \right)$$

where ρ is the density of ozone, w, u, v are the vertical and horizontal air velocities respectively, α is the coefficient of photochemical equilibrium, ρ_0 is the equilibrium photochemical density of ozone, and D^z, D^y, D^x are the coefficients of turbulent exchange along the coordinate axes. Various dynamic and turbulent models of the atmosphere are considered: with constant D^z , variable D^z , steadily increasing D^z , steadily decreasing D^z . In the equatorial zone the maximal vertical distribution of ozone is displaced upward, from 26 km to as much as 31.5 km. The vertical velocity ranges from 3.5 to 8 cm/sec in these models. The following effects of turbulence are noted: turbulence that is constant or that increases with altitude favors the development of a weak secondary maximum (perhaps two) at 18--19 km; variable turbulence weakly smooths the secondary maximum without changing the shape of the distribution curve; turbulence that declines with altitude increases ozone concentration in the upper layers and decreases the concentration in the lower layers of the atmosphere. In the polar zone downward displacement with downward currents is less clearly defined than upward displacement.

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ment with upward movements. The main difference between polar and equatorial models lies in the 24--42 km zone, where the photochemical effect increases sharply. Comparison with experimental data shows that the model for ascending movements predicts observed results rather well, but that for descending movements it gives less reliable results, especially in polar regions. In conclusion, the author expresses his thanks to R. A. Timasheva for her aid in the computations. Orig. art. has: 3 figures, 2 tables, and 5 formulas.

SUB CODE: 04/ SUBM DATE: 05Jan65/ ORIG REF: 007/ OTH REF: 011

Card 3/3

Dissertation: "Toxic effect of Trichodectes Pilosus on an Animal Organism." Sand Med
Sci, Tashkent Medical Inst, 23 Jun 54. Pravda Vostoka, Tashkent, 29 May 54.

30: 254, 26 Nov 1954

"Experimental Investigation of the Toxic Action of the Seeds of *Trichodesma Incanum*," by K. A. Shafrina, *Za Sotsialisticheskoye Zdravookhraneniye Uzbekistana*, 1955, 4, 61-65 (from *Sovetskoye Meditsinskoye Referativnoye Obozreniye*, Normal'naya i Patologicheskaya Fiziologiya, Biokhimiya, Farmakologiya i Toksikologiya, No 27, 1956, Abstract by L. Strugach, p 126)

"Experiments were conducted on 55 white rats and 7 dogs. The crushed seeds of *Trichodesma incanum* were administered to the animals with food. Even comparatively small doses caused serious affections of the central nervous system, creating a clinical picture of toxic encephalitis. The intensity of the toxic action of the seeds depended on the dose which was administered, the individual characteristics of the animals, and the duration of the intoxication. The symptoms of intoxication did not become apparent immediately. In the initial period of intoxication a rise in the irritability of the animals was noted. In the later stages the irritability was replaced by symptoms of a depression of the central nervous system: adynamia, somnolence, and diminution of conditioned reflex activity. Shortly before the animals died paresis of the posterior extremities developed. A drop in the hemoglobin content and diminution in the number of erythrocytes and reticulocytes were noted in the dogs poisoned by *Trichodesma*. The color index was low. An acutely expressed leucopenia with a corresponding increase in the number of lymphocytes and diminution in the number of granulocytes developed. All the dogs died.

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CHARVING, D. A.

"Macroscopic examination revealed considerable hyperemia in the blood vessels of the brain and edema of brain matter. Hemorrhagic spots on the mucous membrane of the stomach and small intestine as well as signs of ulcerated enterocolitis were found. The pathomorphological changes which were found in the central nervous system were predominantly those which occurred in the white matter of the brain. They were principally of an alteration character and indicated that serious disturbances of the central nervous system which create a picture of toxic encephalitis had taken place."

(U)

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KHANIN, M.N., prof.; BURSHTEYN, Ch.I., dotsent; KARIMOV, Z.N., dotsent;
KINEL', V.I., assistant; MANKUS, T.G., assistant; SHAFRINA, K.A.,
assistant; RASULEV, Sh.I., assistant; PANKOVA, L.P., assistant

Development of radiation sickness in animals following X-irradiation.
Med.zhur. Uzb. no.11:11-16 N '60. (MIRA 14:5)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. M.N.Khanin)
i kafedry rentgenologii i meditsinskoy radiologii (zav. - prof.
S.A.Molchanov) Tashkentskogo gosudarstvennogo meditsinskogo instituta.
(RADIATION SICKNESS)

MANKUS, T.G.; KINEL', B.I.; SHAFRINA, K.A.

Effect of oxygen and thiouracil on the course of radiation sickness
in animals. Med. zhur. Uzb. no.7:50-52 J1 '61. (MIRA 15:1)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. M.N.Khanin)
Tashkentskogo gosudarstvennogo meditsinskogo instituta.
(RADIATION SICKNESS) (OXYGEN THERAPEUTIC USE)
(THIOURACIL)

BUYANOV, V. I.; SHAFRINSKIY, Yu. S.

Determining tin chloride vapor pressure at low temperatures.
Trudy Vost. Sib. fil. AN SSSR no.41:29-32 '62.
(MIRA 15:10)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.
(Tin chloride) (Vapor pressure)

RUMYANTSEV, Yu.V.; SHAFRINSKIY, Yu.S.; KOMAROVA, T.N.

Vacuum method of recovering lead and zinc from oxidized
ores. Trudy IPI no.18:112-122 '63. (MIRA 17:6)

1. NIKOLAYEV, A. A.; SHAFROV, V. A.
2. USSR (600)
4. Trufanov, A. V.
7. This book is a failure ("Vitamins in poultry raising." A. V. Trufanov, F. YE. Golyarkin. Reviewed by A. A. Nikolayev, V. A. Shafrov), Ptitsevodstvo, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

SHAFROV, V.A.
FIGAREV, N.V., kandidat selskokhozyaystvennykh nauk; NIKULITSKIY, I.V.;
ARTEMICHEV, M.A., kandidat veterinarnykh nauk; KISKACHI, A.B.;
KUZ'MINYKH, L.M.; SOKOLOVA, Ye.V., kandidat biologicheskikh nauk;
SHAFROV, V.A.

Ultraviolet irradiation of poultry raised in coops. Veterinariia
33 no.11:70-73 N '56. (MIRA 9:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsepromysh-
lennosti i Bratsevsкая ptitsefabrika.
(Poultry) (Ultraviolet rays--Physiological effect)

COUNTRY : USSR
 CATEGORY : Farm Animals. Poultry.
 ABS. JOUR. : RZhBiol., No. 6, 1959, No. 25911
 AUTHOR : Shafrov, V. A.; Pigarev, N. V.
 INST. :
 TITLE : An Experiment On Feeding Hens with Granulated Mixed Feeds.
 ORIG. PUB. : Ptitsevodstvo, 1958, No 1, 8-10
 ABSTRACT : At the Bratsevskaia Poultry Plant an experiment was devised with three groups of 5-month old pullets of the same breed. In the first group's ration the granulated mixed feed amounted to 54 percent of nutritive value, in the second group's ration to about 76 percent. The third group was the control group. According to their nutritive value as such, the rations for all three groups were identical. In the first group egg laying was 19.9 percent higher,

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COUNTRY : USSR
 CATEGORY :
 ABS. JOUR. : RZhBiol., No. 1959, No.
 AUTHOR :
 INST. :
 TITLE :
 ORIG. PUB. :
 ABSTRACT : in the second group 12.9 percent higher than in the control group. In the first group 22 percent less feeds were expended per 10 eggs, in the second group 18 percent less than in the control group.

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